

May Excel

0590
0512

OIPE

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/003,632C

ENTERED

CRF Processing Date: 6/22/2003
Edited by: [signature]
Verified by: [signature] (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☒ Deleted extra, invalid, headings used by an applicant, specifically:
C1407, C1417 alphabetical headings
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIEP

RAW SEQUENCE LISTING

DATE: 06/22/2003

PATENT APPLICATION: US/10/003,632C

TIME: 17:43:45

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06202003\J003632C.raw

3 <110> APPLICANT: Lee, Chichang; Ly, Celia; Moore, Gordon; Chi, Xiamei
 5 <120> TITLE OF INVENTION: Methods and Compositions for Enhanced Protein Expression
 and/or Growth of

6 Cultured Cells Using Co-Transcription of a Bcl2 Encoding Nucleic Acid

8 <130> FILE REFERENCE: CEN0269

10 <140> CURRENT APPLICATION NUMBER: US/10/003,632C

11 <141> CURRENT FILING DATE: 2001-11-02

13 <160> NUMBER OF SEQ ID NOS: 14

15 <170> SOFTWARE: PatentIn Ver 3.1

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 239

19 <212> TYPE: PRT

20 <213> ORGANISM: Homo sapiens

22 <400> SEQUENCE: 1

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 24 1 5 10 15
 26 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 27 20 25 30
 29 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
 30 35 40 45
 32 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
 33 50 55 60
 35 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
 36 65 70 75 80
 38 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
 39 85 90 95
 41 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
 42 100 105 110
 44 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
 45 115 120 125
 47 Arg Phe Ala Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp
 48 130 135 140
 50 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
 51 145 150 155 160
 53 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
 54 165 170 175
 56 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
 57 180 185 190
 59 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
 60 195 200 205
 62 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
 63 210 215 220
 65 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
 66 225 230 235

ENTERED

RAW SEQUENCE LISTING

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DATE: 06/22/2003

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Input Set : A:\PTO.AMC.txt

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69 <210> SEQ ID NO: 2
70 <211> LENGTH: 205
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
74 <400> SEQUENCE: 2
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76 1 5 10 15
78 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
79 20 25 30
81 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
82 35 40 45
84 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
85 50 55 60
87 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
88 65 70 75 80
90 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
91 85 90 95
93 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
94 100 105 110
96 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
97 115 120 125
99 Arg Phe Ala Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp
100 130 135 140
102 Gly Arg Ile Val Ala Phe Glu Phe Gly Gly Val Met Cys Val Glu
103 145 150 155 160
105 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
106 165 170 175
108 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
109 180 185 190
111 Gly Gly Trp Val Gly Ala Ser Gly Asp Val Ser Leu Gly
112 195 200 205
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 239
116 <212> TYPE: PRT
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 3
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121 1 5 10 15
123 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
124 20 25 30
126 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
127 35 40 45
129 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
130 50 55 60
132 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
133 65 70 75 80
135 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
136 85 90 95
138 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/003,632C

DATE: 06/22/2003

TIME: 17:43:45

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06202003\J003632C.raw

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139          100          105          110
141 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
142          115          120          125
144 Arg Phe Ala Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp
145          130          135          140
147 Gly Arg Ile Val Ala Phe Glu Phe Gly Gly Val Met Cys Val Glu
148 145          150          155          160
150 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
151          165          170          175
153 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
154          180          185          190
156 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
157          195          200          205
159 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
160          210          215          220
162 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
163 225          230          235
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 21
168 <212> TYPE: PRT
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175 Phe Tyr Phe Ala Ser
176          20
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179 <211> LENGTH: 175
180 <212> TYPE: PRT
181 <213> ORGANISM: Homo sapiens
183 <400> SEQUENCE: 5
184 Met Asp Glu Asp Val Leu Pro Gly Glu Val Leu Ala Ile Glu Gly Ile
185 1          5          10          15
187 Phe Met Ala Cys Gly Leu Asn Glu Pro Glu Tyr Leu Tyr His Pro Leu
188          20          25          30
190 Leu Ser Pro Ile Lys Leu Tyr Ile Thr Gly Leu Met Arg Asp Lys Glu
191          35          40          45
193 Ser Leu Phe Glu Ala Met Leu Ala Asn Val Arg Phe His Ser Thr Thr
194          50          55          60
196 Gly Ile Asn Gln Leu Gly Leu Ser Met Leu Gln Val Ser Gly Asp Gly
197 65          70          75          80
199 Asn Met Asn Trp Gly Arg Ala Leu Ala Ile Leu Thr Phe Gly Ser Phe
200          85          90          95
202 Val Ala Gln Lys Leu Ser Asn Glu Pro His Leu Arg Asp Phe Ala Leu
203          100          105          110
205 Ala Val Leu Pro Val Tyr Ala Tyr Glu Ala Ile Gly Pro Gln Trp Phe
206          115          120          125
208 Arg Ala Arg Gly Gly Trp Arg Gly Leu Lys Ala Tyr Cys Thr Gln Val
209          130          135          140

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TIME: 17:43:45

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06202003\J003632C.raw

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211 Leu Thr Arg Arg Arg Gly Arg Arg Met Thr Ala Leu Leu Gly Ser Ile
212 145          150          155          160
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217 <210> SEQ ID NO: 6
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219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
222 <400> SEQUENCE: 6
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224 1          5          10          15
226 Pro Ala Leu Pro Ser Ala Ser Glu Glu Gln Val Ala Gln Asp Thr Glu
227          20          25          30
229 Glu Val Phe Arg Ser Tyr Val Phe Tyr Arg His Gln Gln Glu Gln Glu
230          35          40          45
232 Ala Glu Gly Val Ala Ala Pro Ala Asp Pro Glu Met Val Thr Leu Pro
233          50          55          60
235 Leu Gln Pro Ser Ser Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile
236 65          70          75          80
238 Ile Gly Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln Thr Met
239          85          90          95
241 Leu Gln His Leu Gln Pro Thr Ala Glu Asn Ala Tyr Glu Tyr Phe Thr
242          100         105         110
244 Lys Ile Ala Thr Ser Leu Phe Glu Ser Gly Ile Asn Trp Gly Arg Val
245          115         120         125
247 Val Ala Leu Leu Gly Phe Gly Tyr Arg Leu Ala Leu His Val Tyr Gln
248          130         135         140
250 His Gly Leu Thr Gly Phe Leu Gly Gln Val Thr Arg Phe Val Val Asp
251 145          150          155          160
253 Phe Met Leu His His Cys Ile Ala Arg Trp Ile Ala Gln Arg Gly Gly
254          165          170          175
256 Trp Val Ala Ala Leu Asn Leu Gly Asn Gly Pro Ile Leu Asn Val Leu
257          180          185          190
259 Val Val Leu Gly Val Val Leu Leu Gly Gln Phe Val Val Arg Arg Phe
260          195          200          205
262 Phe Lys Ser
263          210
266 <210> SEQ ID NO: 7
267 <211> LENGTH: 170
268 <212> TYPE: PRT
269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 7
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273 1          5          10          15
275 Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser Asp Val Glu Glu
276          20          25          30
278 Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu Met Glu Thr Pro
279          35          40          45
281 Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala Asp Ser Pro Ala

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RAW SEQUENCE LISTING

DATE: 06/22/2003

PATENT APPLICATION: US/10/003,632C

TIME: 17:43:45

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06202003\J003632C.raw

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282      50      55      60
284 Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp Ala Arg Glu Val
285 65      70      75      80
287 Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu
288      85      90      95
290 Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu Thr Ser Gln Leu
291      100      105      110
293 His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Asp Thr Phe
294      115      120      125
296 Val Glu Leu Tyr Gly Asn Asn Ala Ala Ala Glu Ser Arg Lys Gly Gln
297      130      135      140
299 Glu Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val Ala Gly Val
300 145      150      155      160
302 Val Leu Leu Gly Ser Leu Phe Ser Arg Lys
303      165      170
305 <210> SEQ ID NO: 8
306 <211> LENGTH: 160
307 <212> TYPE: PRT
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 8
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312 1      5      10      15
314 Leu Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met
315      20      25      30
317 Thr Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu
318      35      40      45
320 Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile
321      50      55      60
323 Gly Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu
324 65      70      75      80
326 Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln
327      85      90      95
329 Thr Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr
330      100      105      110
332 Thr Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly
333      115      120      125
335 Ser Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu
336      130      135      140
338 Ala Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
339 145      150      155      160
341 <210> SEQ ID NO: 9
342 <211> LENGTH: 218
343 <212> TYPE: PRT
344 <213> ORGANISM: Homo sapiens
346 <400> SEQUENCE: 9
347 Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser
348 1      5      10      15
350 Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln
351      20      25      30

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/22/2003
PATENT APPLICATION: US/10/003,632C TIME: 17:43:46

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\06202003\J003632C.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/003,632C

DATE: 06/22/2003

TIME: 17:43:46

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\06202003\J003632C.raw

L:614 M:283 W: Missing Blank Line separator, <400> field identifier

10/003,632C

Sequence Listing

<110> Lee, Chichang; Ly, Celia; Moore, Gordon; Chi, Xiamei

<120> Methods and Compositions for Enhanced Protein Expression and/or Growth of Cultured Cells Using Co-Transcription of a Bcl2 Encoding Nucleic Acid

<130> CEN0269

<140> ~~CURRENT APPLICATION NUMBER:~~ US/10/003,632B

<141> ~~CURRENT APPLICATION DATE:~~ 2001-11-02

Does Not Comply
Corrected Diskette Needed